AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended)   A ~~home~~ network system, comprising:

a first network;

a second network separated from the first network;

~~a home~~ an appliance connectable to at least one of the first and second networks; and

a network manager connectable to at least one of the first and second networks, for controlling and monitoring the ~~home~~ appliance, wherein:

the appliance and the network manager each respectively comprise an interface apparatus; and

the interface apparatus comprises:

a first interface module including a first universal asynchronous receiver and transmitter; and

a second interface module including a second universal asynchronous receiver and transmitter connected to the first universal asynchronous receiver.

2. (Currently Amended)   The system of claim 1, wherein the ~~home appliance and the network manager each respectively comprise a~~ first interface module is:

based on a predetermined control protocol;

connectable to the first network [[,]]; and

adapted to transmit or receive ~~for transmitting/receiving~~ a message to [[/]] or from an inside control means.

3. (Currently Amended)   The system of claim 2, wherein the ~~home appliance and the network manager each respectively comprise a~~ second interface module is:

based on the predetermined control protocol;

connected to the first interface module; and

connectable to the second network.

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4. (Currently Amended)   The system of claim 3, wherein the ~~home~~ appliance and the network manager are connected to each other through the first network by the first interface module, or through the second network by the first and second interface modules.

5. (Currently Amended)   The system of claim 2 or 3, wherein the first and second interface modules each respectively comprise an application layer using the message, a network layer, a data link layer and a physical layer under the <u>predetermined</u> control protocol, and the data link layers each respectively comprise [[a]] <u>the</u> universal asynchronous receiver and transmitter ~~for connecting the first interface module to the second interface module~~.

6. (Currently Amended)   The system of claim 1, wherein the ~~home appliance comprises: a~~ first interface module ~~for transmitting/receiving~~ is adapted to transmit or receive a message ~~to/from~~ to or from an inside control means; and [[a]] <u>the</u> second interface module is:
        based on a predetermined control protocol;
        connected to the first interface module; and
        connectable to the second network.

7. (Currently Amended)   The system of claim 6, wherein the first interface module comprises an application layer using the message, a network layer and [[a]] <u>the</u> universal asynchronous receiver and transmitter under the control protocol, and the second interface module comprises an application layer, a network layer, a data link layer, a physical layer and [[a]] <u>the</u> universal asynchronous receiver and transmitter connected to the universal asynchronous receiver and transmitter of the first interface module under the control protocol.

8. (Original)   The system of one of claims 1 to 4, wherein the first network uses a dedicated medium.

9. (Cancelled)

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10. (Original) The system of one of claims 1 to 4 or 6, wherein the second network uses a shared medium.

11. (Cancelled)

12. (Currently Amended)   An interface apparatus of a ~~home~~ network system, comprising:

a first interface module based on a predetermined control protocol connectable to a first network connected to the ~~home~~ network system, for transmitting/receiving a message to/from a control means of ~~a home~~ an appliance composing the ~~home~~ network system, wherein the first interface includes a first universal asynchronous receiver and transmitter; and

a second interface module based on the control protocol connected to the first interface module, disconnected from the first network, and connectable to a second network connected to the ~~home~~ network system, wherein the second interface module includes a second universal asynchronous receiver and transmitter connected to the first universal asynchronous receiver and transmitter.

13. (Currently Amended)   The apparatus of claim 12, which is connected to the ~~home~~ network system through the first interface module or the first and second interface modules according to a communication method of the ~~home~~ network system.

14. (Currently Amended)   The apparatus of claim 13, wherein the first and second interface modules each respectively comprise an application layer using the message, a network layer, a data link layer and a physical layer under the control protocol, and the data link layers each respectively comprise [[a]] the first and second universal asynchronous receivers and transmitters for connecting the first interface module to the second interface module.

15. (Original) The apparatus of one of claims 12 to 14, wherein the first network uses a dedicated medium.

16. (Cancelled)

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17. (Original) The apparatus of one of claims 12 to 14, wherein the second network uses a shared medium.

18. (Cancelled)

19. (Currently Amended)   An interface apparatus of a ~~home~~ network system, comprising:

a first interface module for transmitting/receiving a message to/from a control means of a ~~home~~ an appliance composing the ~~home~~ network system, wherein the first interface includes a first universal asynchronous receiver and transmitter; and

a second interface module based on a control protocol connected to the first interface module and connectable to a network connected to the ~~home~~ network system, wherein the second interface module includes a second universal asynchronous receiver and transmitter connected to the first universal asynchronous receiver and transmitter.

20. (Currently Amended)   The apparatus of claim 19, wherein the first interface module comprises an application layer using the message, a network layer and [[a]] the first universal asynchronous receiver and transmitter under the control protocol, and the second interface module comprises an application layer, a network layer, a data link layer, a physical layer and [[a]] the second universal asynchronous receiver and transmitter connected to the universal asynchronous receiver and transmitter of the first interface module under the control protocol.

21. (Original) The apparatus of claim 19 or 20, wherein the network uses a shared medium.

22. (Cancelled)